

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

re application of:

Yajuan Chen, *et al.*

Appl. No. 10/663,249

Filed: September 15, 2003

For: ELECTROPHORETIC DISPLAY WITH  
IMPROVED TEMPERATURE  
LATITUDE AND SWITCHING  
PERFORMANCE

Art Unit: 2673

Examiner: Not Yet Assigned

Atty. Docket: 07783.0070.NPUS01

Confirmation No.: 2868

**Information Disclosure Statement**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited by or submitted

to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. § 120.  
1138 OG 37, 38 (May 19, 1992).

Applicants have checked the appropriate boxes below.

- 1. This Information Disclosure Statement is being filed;
  - a. Within three months of the U.S. filing date of a national application other than a continued prosecution application under §1.53(d);
  - b. Within three months of the date of entry of the national stage as set forth in §1.491 in an international application;
  - c. Before the mailing date of a first Office Action on the merits;
  - d. Before the mailing of a first Office Action after filing of a request for continued examination under § 1.115.

No statement under 37 C.F.R. § 1.97(e) or fee is required.

or;

- 2. This Information Disclosure Statement is being filed after the period specified in paragraph 1(a)-1(d) above, but before the mailing date of a Final Rejection or Notice of Allowance, or action that otherwise closes prosecution in the application, and
  - a. I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1), or
  - b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2), or
  - c. Attached is our Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ in payment of the fee under 37 C.F.R. § 1.17(p).

3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but on or before payment of the Issue Fee. Attached is our Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ in payment of the fee under 37 C.F.R. § 1.17(i), and

a. I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1), or

b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

4. Relevance of the non-English language document(s) is discussed in the present specification.

5. The document(s) was/were cited in a corresponding foreign application. An English language version of the foreign search report is attached for the Examiner's information.

6. A concise explanation of the relevance of the non-English language document(s) appears below:

7. The Examiner's attention is directed to co-pending U.S. Patent Application No. \_\_\_\_\_, filed \_\_\_\_\_, which is directed to related technical subject matter. The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to that application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination.

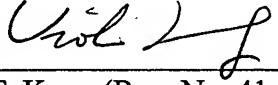
8. Copies of the documents were cited by or submitted to the Office in Application No. \_\_\_\_\_, filed \_\_\_\_\_, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 08-3038 referencing docket number 07783.0070.NPUS01.

Respectfully submitted,

Date: May 13, 2004

  
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<b>INFORMATION DISCLOSURE CITATION</b>  <b>SUPPLEMENTAL PTO-1449</b>		ATTY. DOCKET NO. 07783.0070.NPUS01		SERIAL NO. 10/663,249		
		APPLICANT : Chen, et al.				
		FILING DATE 09/15/2003		GROUP 2673		
		<b>U.S. PATENT DOCUMENTS</b>				
EX'R INITIAL	PATENT NO.	DATE MM-YYYY	NAME	CLASS	SUBCLASS	FILING DATE
	5,961,804	10-1999	Jacobson, et al.			
	5,930,026	07-1999	Jacobson, et al.			
	3,612,758	10-1971	Evans, et al.			
	USSN 09/518,488	03-2000	Liang, et al.			
	USSN 09/606,654	06-2000	Liang, et al.			
	USSN 09/784,972	02-2001	Chan-Park et al.			
	US 2002-0182544	12-2002	Chan-Park et al.			
	USSN 10/335,051	12-2002	Chen, et al.			
	USSN 10/335,210	12-2002	Chen, et al.			
	USSN 10/632,171	07-2003	Yu et al.			
	USSN 10/439,428	05-2003	Li, et al.			
	3,281,426	10-1966	Tiers			
	US 2003-0164480 (10/330,899)	09-2003 (12-2002)	Wu, et al.			
	5,573,711	11-1996	Hou, et al.			
	6,372,838	4-2002	Rao, et al.			

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	FILING DATE 09/15/2003	GROUP 2673

**FOREIGN PATENT DOCUMENTS**

EX'R INITIAL	PATENT NO.	DATE MM-YYYY	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	WO 03/057360	07-2003	PCT (Chen, et al.)				
	WO 02/00748	01-2002	PCT (Rao, et al.)				
						<input type="checkbox"/>	<input type="checkbox"/>

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

EX'R INITIAL	DOCUMENT
	M.A. Hopper and V. Novotny, "An Electrophoretic Display, Its Properties, Model, and Addressing", IEEE Trans. Electro Dev., 26 (8): 1148-1152 (1979)
	James M. Richmond, "Cationic Surfactants: Organic Chemistry", Surfactant Science Series, Vol. 34 (1990), Marcel Dekker
	P. Gregory, "High Technology Applications of Organic Colorants", 1991, Plenum Publishing Corp.
	F. J. Green, « Sigma-Aldrich Handbook of Stains, Dyes, and Indicators », 1990, Aldrich Chemical Co.
	Arthur S. Diamond and David S. Weiss, « Handbook of Imaging Materials » edited by A.S. Diamond and D.S. Weiss, 2001, Marcel Dekker
	Armido Struder, et al., « Fluorous Synthesis : Fluorous Protocols for the Ugi and Biginelli Multicomponent Condensations », J. Org. Chem. 62 : 2917-24 (1997)
	Chen, S.M., « The Applications for the Revolutionary Electronic Paper Technology », OPTO News & Letters, 2003, July, 102, pp 37-41 (in Chinese, English abstract attached, full translation available upon request)
	Zang, H.M. and Liang, R.C., « Microcup Electronic Paper by Roll-to-Roll Manufacturing Processes », Spectrum, 2003, Summer, 16/2, pp16-21
	Liang, R.C. and Lee, H., « SiPix Microcup(R) Electronic Paper – An Introduction », Advanced Display, 2003, June, Issue 3, pp 4-9 (in Chinese, English abstract attached, full translation available upon request)
	Liang, R.C. et al, « Microcup(R) Active and Passive Matrix Electrophoretic Displays by A Roll-to-Roll Manufacturing Processes », SID Digest, May 21-22, 2003, 20.1/R.C. Liang

<b>INFORMATION DISCLOSURE CITATION</b>  <b>SUPPLEMENTAL PTO-1449</b>		ATTY. DOCKET NO. 07783.0070.NPUS01	SERIAL NO. 10/663,249
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	Chen, S.M., « The New Applications and the Dynamics of Companies », TRI, May, 2003 (in Chinese, English abstract attached, full translation available upon request)		
	Liang, R.C., et al., « Microcup® displays : Electronic paper by roll-to-roll Manufacturing Processes », J. SID, 11(4) : 621-628 (2003)		
	Liang, R.C. et al, « Passive Matrix Microcup(R) Electrophoretic Displays », IDMC '03, Feb. 18-21, Taipei, Liang, Paper Fr-17-5		
	Liang, R.C. and Tseng, S., « Microcup(R) LCD, A New Type of Dispersed LCD by A Roll-to-Roll Manufacturing Process », IDMC '03, Feb. 18-21, Taipei, Liang, Paper We-02-04		
	Liang, R.C., « Microcup(R) Electrophoretic and Liquid Crystal Displays by Roll-to-Roll Manufacturing Processes », USDC Flexible Microelectronics & Displays Conference, Feb. 3-4, 2003, Phoenix, Arizona, USA.		
	Liang, R.C. et al, « Microcup Electrophoretic Displays by Roll-to-Roll Manufacturing Processes », IDW '02, December 4-6, pp1337-1340		
	R. C. Liang, « Newly-Developed Color Electronic Paper Promises – Unbeatable Production Efficiency » Nikkei Microdevices, December 2002 (in Japanese, with English translation)		
<b>EXAMINER:</b>	<b>DATE CONSIDERED:</b>		
<b>EXAMINER:</b> Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.			